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10/736,296	. 12/15/2003	Robert R. Bushey	130332.00044 3736	
67942 RAMANN D	7590. 10/22/2007 N.N. DEWAN		EXAMINER	
JACKSON WALKER, L.L.P.			NEWAY, SAMUEL G	
100 CONGRESS AVENUE SUITE 1100 AUSTIN, TX 78701			ART UNIT	PAPER NUMBER
			2626	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/736,296	BUSHEY ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Samuel G. Neway	2626			
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
A SH WHIC - Exter after - If NO - Failu Any rearne	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is not soft time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	N. they filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[Responsive to communication(s) filed on <u>16 August 2007</u> .					
· <u>-</u>	This action is FINAL . 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) 1-6,8-16 and 18-22 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1,2,5,6,8-10,13-16 and 18-22 is/are reclaim(s) 3-4, and 11-12 is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 1.	epted or b) \square objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority (ınder 35 U.S.C. § 119					
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)					
	e of References Cited (PTO-892)	4) Interview Summary				
3) Infor	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

1. This is responsive to the Amendment filed on 16 August 2007.

2. Claims 1 - 6, 8 - 16, and 18 - 22 are still pending while claims 7 and 17 have been cancelled.

Response to Amendment

3. The amendment fail to resolve the non-statutory status of claims 1 and 19 - 22 that are still rejected under 35 U.S.C. 101 (see 101 rejection below).

Response to Arguments

4. Applicant argues that an action-object matrix is not taught in Carpenter. The Examiner respectfully disagrees. Carpenter discloses that similar words (objects) may be used to describe different functions (actions) (col. 2, line 66 to col. 3, line 1). Carpenter further gives an example where the user utters "Checking account" (object) which may be associated with opening a new account (action) or inquiring about an existing account (action) (col. 3, lines 1-8) to which Carpenter's system poses a disambiguating question. Further, since Applicant provides no explicit and deliberate definition for "action-object matrix" in the specification, it is reasonable to give the claims their broadest reasonable interpretation in light of the supporting disclosure.

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Claim Objections

- 5. Claim 1 is objected to because of the following informalities: in line 10, "if neither an action nor an object are included" is believed to be a typographical error for 'if neither an action nor an object is included'.
- 6. Claims 1 and 19 22 are objected to because of the following informalities: the claims contain subject matter that was not described in the specification in such a way as to reasonably convey, to one skilled in the relevant art, the metes and bounds of the claims. The claims are directed to a "computer program product" which was not described in the specification.
- 7. Claim 18 is objected to because of the following informalities: the claim is directed the "The software of claim 19", however there is no antecedent basis for "software" in claim 19. It is believed that the claim should be directed to 'The computer program product of claim 19' and will be treated as such below.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. Claims 1 and 19 – 22 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1 and 19 – 22 are directed to "A computer program product", which, lacking a description in the specification, can reasonably be interpreted as software alone.

Computer programs claimed as computer listings per se (software), i.e., the descriptions or expressions of the programs, are not physical "things." They are neither computer components nor statutory processes, as they are not "acts" being performed. Such claimed computer programs do not define any structural and functional interrelationships between the computer program and other claimed elements of a computer, which permit the computer program's functionality to be realized.

In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 11. Claims 2, 5 6, 8 10, 13 16, 18 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Carpenter et al. (USPN 6,269,153).

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Claim 2:

Carpenter discloses a method for identifying a routing destination in a service center (Abstract), comprising:

prompting a user to convey a request; receiving a natural language utterance from the user ("routing system 102 receives calls from a caller 216 and provides information and poses questions to the caller 216 using voice prompts produced by the voice synthesizer 202. The caller 216 provides voice responses", col. 3, lines 42-46 FIG. 1 and related text);

comparing the natural language utterance to an action-object matrix ("...the caller 110 may say 'Checking accounts, please'. This may indicate that the call is to be directed to the New Accounts Department 104, where the caller 110 can inquire about opening a new checking account, or it may indicate that the caller 110 has a question about his already existing checking account, in which case the call should be directed to the Checking Department 106. In this case, it is necessary for the call routing system 102 to pose a disambiguating question ... ", col. 3, lines 1-13. Note that "Checking accounts" reads on object while "opening a new checking account" and "question about his already existing checking account" read on actions);

identifying a routing destination based upon results of the natural language utterance to action-object matrix comparison; and routing the user to the routing destination ("The proper destination of the call is therefore the Checking Department", col. 3, lines 13-15).

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Claim 5:

Carpenter discloses the method of claim 2, further comprising initiating a disambiguation dialog with the user where an action-object combination cannot be found in the action-object matrix (FIG. 2, item 208 and related text).

Claim 6:

Carpenter discloses the method of claim 2, further comprising identifying at least one of an action, an object and an action-object combination using a statistical language modeling speech recognition utility (FIG. 2, item 204 and related text).

Claim 8:

Carpenter discloses a system for routing a service center user based on a natural language request (Abstract), comprising:

at least one processor; memory operably associated with the at least one processor; a program of instructions storable in the memory and executable by the processor (FIG. 3 and related text),

the program of instructions operable to identify a task to be performed from a natural language user request and a task matrix and to direct the user to a service center agent for performance of the task (Abstract) and to

identify an action-object combination from the natural language user request; and locate a service agent to perform the task based on the identified action-object

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combination and the task matrix ("...the caller 110 may say 'Checking accounts, please'. This may indicate that the call is to be directed to the New Accounts

Department 104, where the caller 110 can inquire about opening a new checking account, or it may indicate that the caller 110 has a question about his already existing checking account, in which case the call should be directed to the Checking Department 106. In this case, it is necessary for the call routing system 102 to pose a disambiguating question ... ", col. 3, lines 1-13. Note that "Checking accounts" reads on object while "opening a new checking account" and "question about his already existing checking account" read on actions).

Claim 9:

Carpenter discloses the system of claim 7, further comprising the service center agent operable to provide automated user assistance in performance of the task ("automatic call routing", Abstract).

Claim 10:

Carpenter discloses the system of claim 7, further comprising the service center agent operable to provide technician assisted performance of the task (FIG. 2, item 214 and related text).

Claim 13:

Carpenter discloses the system of claim 7, further comprising the program of instructions operable to identify at least one of an action or an object in the natural

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language utterance to identify the task to be performed (FIG. 2, item 204 and related text).

Claim 14:

Carpenter discloses the system of claim 7, further comprising the program of instructions operable to prompt the user for at least one additional natural language user request in response to identifying an action and no object in the natural language user utterance ("If the original query 404 is 'car loans', for example, the question produced may be 'Would that be new car loans?' ... ", col. 10, lines 52-59. Note that "car loans" is the action and "new car loan" is one of the objects).

Claim 15:

Carpenter discloses the system of claim 7, further comprising the program of instructions operable to prompt the user for at least one additional natural language user request in response to identifying an object and no action in the natural language user utterance ("...the caller 110 may say 'Checking accounts, please'. This may indicate that the call is to be directed to the New Accounts Department 104, where the caller 110 can inquire about opening a new checking account, or it may indicate that the caller 110 has a question about his already existing checking account, in which case the call should be directed to the Checking Department 106. In this case, it is necessary for the call routing system 102 to pose a disambiguating question ... ", col. 3, lines 1-13).

Claim 16:

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Carpenter discloses the system of claim 7, further comprising the program of instructions operable to prompt the user for confirmation of the identified task requested ("If the original query 404 is 'car loans', for example, the question produced may be 'Would that be new car loans?' ... ", col. 10, lines 52-59).

Claim 19:

Carpenter discloses a computer program product comprising instructions for routing users to an appropriate service center destination (Abstract), the software stored in computer readable media and when executed operable to:

derive an action-object combination from the natural language utterance (FIG. 2, item 204 and related text);

match a transaction request derived from a natural language utterance to a transaction option in a transaction option matrix ("the system matches a query to a document based on a match of the terms contained in the query with the terms contained in the document", col. 2, lines 11-23);

facilitate connection between the user and a service module operable to effect processing of the requested transaction (Abstract).

Claim 18:

Carpenter discloses the computer program product of claim 19, further operable to initiate a disambiguation dialog with a user in response to a failure to match a

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transaction request derived from the natural language utterance to a transaction in the transaction option matrix (Fig. 2, item 208 and related text).

Allowable Subject Matter

- 12. Claims 3-4, and 11-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 13. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record, individually or in combination, does not teach the call routing method as claimed in the allowable claims.

Conclusion

14. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel G. Neway whose telephone number is 571-270-1058. The examiner can normally be reached on Monday - Friday 8:30AM - 5:30PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R Hudspeth can be reached on 571-272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SN

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DAVID HUDSPETH
SUPERVISORY PATENT EXAMINATED
TECHNOLOGY CFARTS